8th Grade Idaho Student Information Technology Standards (ISITS) Kindergarten – 7th Grade Idaho Information Technology Benchmarks



Department of Education asked a statewide team to develop a draft copy of student information technology standards for eighth-grade students. The team consisted of the following:

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The eighth grade was chosen because it is considered to be the culmination of the elementary/middle grades and sets the standard for a student entering his or her high school career. Therefore, the following standards are what we expect an eighth grader to know and be able to do in the area of technology.

8th Grade Idaho Student Information Technology Standards (ISITS) Kindergarten – 7th Grade Idaho Information Technology Benchmarks

Technology Foundation Standards for all students

The Technology foundation standards for students are divided into six broad categories that were developed through the National Educational Technology Standards (NETS) project coordinated by the International Society for Technology in Education (ISTE). Standards within each category are to be introduced, reinforced, and mastered by students. These categories provide a framework for linking sample applications. These standards and benchmarks are used as guidelines for planning technology-based activities in which students achieve success in learning, communication, and life skills.

1. Basic Operations and Concepts

- a. Students demonstrate a sound understanding of the nature and operation of technology systems.
- b. Students are proficient in the use of technology.

2. Social, Ethical, and Human Issues

- a. Students understand the ethical, cultural, and societal issues related to technology.
- b. Students practice responsible use of technology systems, information, and software.
- c. Students develop positive attitudes toward technology uses that support lifelong learning, collaboration, personal pursuits, and productivity.

3. Technology Productivity Tools

- a. Students use technology tools to enhance learning, increase productivity, and promote creativity.
- Students use productivity tools to collaborate in constructing technologyenhanced models, preparing publications, and producing other creative works.

4. Technology Communications Tools

- a. Students use telecommunications to collaborate, publish, and interact with peers, experts, and other audiences.
- b. Students use a variety of media and formats to communicate information and ideas effectively to multiple audiences.

5. Technology Research Tools

- a. Students use technology to locate, evaluate, and collect information from a variety of sources.
- b. Students use technology tools to process data and report results.
- c. Students evaluate and select new information resources and technological innovations based on the appropriateness to specific tasks.

6. Technology Problem-Solving and Decision-Making Tools

- a. Students use technology resources for solving problems and making informed decisions.
- b. Students employ technology in the development of strategies for solving problems in the real world.

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Idaho Student Information Technology Standards Rationale

Students will live, learn and work in an increasingly complex, technology-driven society. These technology standards are designed to identify foundational skills and processes that students need in order to be productive and successful.

It is essential that computer and technology education be integrated in all grade level content standards. All educators share responsibility for student success.

The eighth grade was chosen because it is considered to be the culmination of the elementary/middle grades and sets the standard for a student entering his or her high school career. Therefore, the following standards are what we expect an eighth grader to know and be able to do in the area of technology.

STANDARD 1: Basic Operations and Concepts

Standard The student will:	Content Knowledge and Skills:
Demonstrate a sound understanding of the basic nature and operation of technology systems.	 a. Use developmentally appropriate and accurate technology terminology. b. Identify the appropriate technology device to complete a task. c. Make informed choices among technology systems,
Demonstrate proficiency in the use of technology.	a. Demonstrate increasingly sophisticated operation of technology components.
	b. Apply strategies for identifying and solving routine software and hardware problems that occur in everyday use.

STANDARD 2: Social, Ethical, and Human Issues

Standard The student will:	Content Knowledge and Skills:
Demonstrate an understanding of the ethical, cultural, and	Demonstrate knowledge of current changes in technologies and the effect those changes have on the workplace and society.
societal issues related to technology.	 Demonstrate knowledge of legal and ethical issues when using technology, information sources, and consequences of misuse.
2. Practice responsible use	a. Practice responsible use of technological devices and software.
of technology systems, information, and software.	b. Demonstrate respect for others while using technology.
,	c. Exhibit legal and ethical behaviors when using technology and information.

Standard The student will:	Content Knowledge and Skills:
Use technology tools to enhance learning, increase productivity, and promote creativity.	Use formatting capabilities of technology for communicating and illustrating.
	b. Use a variety of technology tools for data collection and analysis.
	c. Publish and present information using technology tools.
	 d. Use technology tools to support analysis and modeling.

STANDARD 4: Technology Communications Tools

Standard The student will:	Content Knowledge and Skills:
Use telecommunications to collaborate, publish, and interact with peers, experts, and other audiences.	Use telecommunications efficiently and effectively to access remote information and communicate with others in support of facilitated and independent learning.
	 Use technology tools for individual and collaborative writing, communication and publishing activities to create curricular related products for audiences inside and outside the classroom.
	c. Collaboratively use telecommunications and online resources.

8th Grade Idaho Student Information Technology Standards

STANDARD 5: Technology Research Tools

Standard The student will:	Content Knowledge and Skills:
1. Use technology to locate, evaluate, and collect information from a variety of sources.	a. Locate information from electronic resources.
	 Evaluate the accuracy, relevance, appropriateness, comprehensiveness and bias of electronic information sources.
Use technology tools to process data and report results.	Select appropriate technology tools for data analysis and reporting.

STANDARD 6:

Standard The student will:	Content Knowledge and Skills:
Use technology resources for solving problems and making informed decisions.	Determine when technology is useful, select and use the appropriate tools, and technology resources to solve the problem, and report findings.

STANDARD 1: Basic Operations and Concepts

Standard The student will:	Content Knowledge and Skills:
1. Demonstrate a sound understanding of the basic nature and operation of technology systems.	a. Use developmentally appropriate and accurate technology terminology. b. Identify the appropriate technology device to complete a task. dentify shaines among technology systems.
	 c. Identify choices among technology systems, resources and services.
2. Demonstrate proficiency in the use of technology.	Demonstrate increasingly sophisticated operation of technology components.
	 Apply strategies for identifying and solving routine software and hardware problems that occur in everyday use.

STANDARD 2: Social, Ethical, and Human Issues

Standard The student will:	Content Knowledge and Skills:
Demonstrate an understanding of the ethical, cultural, and societal issues related to technology.	 Demonstrate knowledge of current changes in technologies and the effect those changes have on the workplace and society.
	 Demonstrate knowledge of legal and ethical issues when using technology, information sources, and consequences of misuse.
2. Practice responsible use of technology systems, information, and software.	Practice responsible use of technological devices and software.
	 b. Demonstrate respect for others while using technology.
	c. Exhibit legal and ethical behaviors when using technology and information.

Standard The student will:	Content Knowledge and Skills:
1. Use technology tools to enhance learning, increase productivity, and promote creativity.	 Use formatting capabilities of technology for communicating and illustrating.
	 b. Use a variety of technology tools for data collection and analysis.
	 c. Publish and present information using technology tools.
	 d. Use technology tools to support analysis and modeling.

STANDARD 4: Technology Communications Tools

Standard The student will:	Content Knowledge and Skills:
Use telecommunications to collaborate, publish, and interact with peers, experts, and other audiences.	Use telecommunications efficiently and effectively to access remote information and communicate with others in support of facilitated and independent learning.
	b. Use technology tools for individual and collaborative writing, communication and publishing activities to create curricular related products for audiences inside and outside the classroom.
	c. Collaboratively use telecommunications and online resources.

STANDARD 5: **Technology Research Tools**

Standard The student will:	Content Knowledge and Skills:
Use technology to locate, evaluate, and collect information from a variety of sources.	a. Locate information from electronic resources.
	 Evaluate the accuracy, relevance, appropriateness, comprehensiveness and bias of electronic information sources
Use technology tools to process data and report results.	Select appropriate technology tools for data analysis and reporting.

STANDARD 6:

Standard The student will:	Content Knowledge and Skills:
Use technology resources for solving problems and making informed decisions.	Determine when technology is useful, select and use the appropriate tools, and technology resources to solve the problem, and report findings.

STANDARD 1: Basic Operations and Concepts

Standard The student will:	Content Knowledge and Skills:
Demonstrate a sound understanding of the basic nature and operation of technology systems.	 a. Use developmentally appropriate and accurate technology terminology. b. Identify the appropriate technology device to complete a task.
	c. Explore choices among technology systems, resources and services.
2. Demonstrate proficiency in the use of technology.	Demonstrate increasingly sophisticated operation of technology components.
	 Apply strategies for identifying and solving routine software and hardware problems that occur in everyday use.

STANDARD 2: Social, Ethical, and Human Issues

Standard The student will:	Content Knowledge and Skills:
Demonstrate an understanding of the ethical, cultural, and societal issues related to technology.	 Demonstrate knowledge of current changes in technologies and the effect those changes have on the workplace and society.
	 Demonstrate knowledge of legal and ethical issues when using technology, information sources, and consequences of misuse.
2. Practice responsible use of technology systems, information, and software.	Practice responsible use of technological devices and software.
	 b. Demonstrate respect for others while using technology.
	c. Exhibit legal and ethical behaviors when using technology and information.

STANDARD 3: Technology Productivity Tools

Standard The student will:	Content Knowledge and Skills:
Use technology tools to enhance learning, increase productivity,	 Use formatting capabilities of technology for communicating and illustrating.
	 Use a variety of technology tools for data collection and analysis.
and promote creativity.	 c. Publish and present information using technology tools.
	 d. Use technology tools to support analysis and modeling.

STANDARD 4: Technology Communications Tools

Standard The student will:	Content Knowledge and Skills:
Use telecommunications to collaborate, publish, and interact with peers, experts, and other audiences.	Use telecommunications efficiently and effectively to access remote information and communicate with others in support of facilitated and independent learning.
	b. Use technology tools for individual and collaborative writing, communication and publishing activities to create curricular related products for audiences inside and outside the classroom.
	c. Collaboratively use telecommunications and online resources.

STANDARD 5: **Technology Research Tools**

Standard The student will:	Content Knowledge and Skills:
Use technology to locate, evaluate, and collect information from a variety of sources.	a. Locate information from electronic resources.
	 Evaluate the accuracy, relevance, appropriateness, comprehensiveness and bias of electronic information sources
Use technology tools to process data and report results.	Select appropriate technology tools for data analysis and reporting.

STANDARD 6:

Standard The student will:	Content Knowledge and Skills:
Use technology resources for solving problems and making informed decisions.	 Determine when technology is useful, select and use the appropriate tools, and technology resources to solve the problem, and report findings.

STANDARD 1: Basic Operations and Concepts

Standard The student will:	Content Knowledge and Skills:
Demonstrate a sound understanding of the basic nature and operation of	a. Use developmentally appropriate and accurate technology terminology.b. Identify the appropriate technology device to complete a task.
technology systems.	c. N/A
2. Demonstrate proficiency in the use of technology.	Demonstrate increasingly sophisticated operation of technology components.
	 Acquire and apply strategies for identifying and solving routine software and hardware problems that occur in everyday use.

STANDARD 2: Social, Ethical, and Human Issues

Standard The student will:	Content Knowledge and Skills:
Demonstrate an understanding of the ethical, cultural, and societal issues related to technology.	Discuss common uses of technology in daily life and related advantages and disadvantages.
	 Discuss basic issues related to responsible use of technology and information and describe personal consequences of inappropriate use.
2. Practice responsible use of technology systems, information,	Practice responsible use of technological devices and software.
	 b. Demonstrate respect for others while using technology.
and software.	c. Exhibit legal and ethical behaviors when using technology and information.

Standard The student will:	Content Knowledge and Skills:
1. Use technology tools to enhance learning, increase productivity, and promote creativity.	 Use formatting capabilities of technology for communicating and illustrating.
	 b. Use a variety of technology tools for data collection and analysis.
	 c. Publish and present information using technology tools.
	 d. Use technology tools to support analysis and modeling.

STANDARD 4: Technology Communications Tools

Standard The student will:	Content Knowledge and Skills:
Use telecommunications to collaborate, publish, and interact with peers, experts, and other audiences.	Use telecommunications efficiently and effectively to access remote information and communicate with others in support of facilitated and independent learning.
	b. Use technology tools for individual and collaborative writing, communication and publishing activities to create curricular related products for audiences inside and outside the classroom.
	c. Collaboratively use telecommunications and online resources.

STANDARD 5: Technology Research Tools

Standard The student will:	Content Knowledge and Skills:
Use technology to locate, evaluate, and collect information from a variety of sources.	a. Locate information from electronic resources.
	 Evaluate the accuracy, relevance, appropriateness, comprehensiveness and bias of electronic information sources
Use technology tools to process data and report results.	a. N/A

STANDARD 6:

Standard The student will:	Content Knowledge and Skills:
Use technology resources for solving problems and making informed decisions.	a. N/A

STANDARD 1: Basic Operations and Concepts

Standard The student will:	Content Knowledge and Skills:
Demonstrate a sound understanding of the basic nature and operation of	 a. Use developmentally appropriate and accurate technology terminology. b. Explore the appropriate technology device to complete a task.
technology systems.	c. N/A
2. Demonstrate proficiency in the use of technology.	Demonstrate increasingly sophisticated operation of technology components.
	 Acquire and apply strategies for identifying and solving routine software and hardware problems that occur in everyday use.

STANDARD 2: Social, Ethical, and Human Issues

Standard The student will:	Content Knowledge and Skills:
Demonstrate an understanding of the ethical, cultural, and	Discuss common uses of technology in daily life and related advantages and disadvantages.
societal issues related to technology.	 Discuss basic issues related to responsible use of technology and information and describe personal consequences of inappropriate use.
2. Practice responsible	Practice responsible use of technological devices and software.
use of technology systems, information,	 b. Demonstrate respect for others while using technology.
and software.	c. Exhibit legal and ethical behaviors when using technology and information.

Standard The student will:	Content Knowledge and Skills:
1. Use technology tools to enhance learning, increase productivity, and promote creativity.	Use formatting capabilities of technology for communicating and illustrating.
	 Use a variety of technology tools for data collection and analysis.
	 c. Publish and present information using technology tools.
	 d. Use technology tools to support analysis and modeling.

STANDARD 4: Technology Communications Tools

Standard The student will:	Content Knowledge and Skills:
Use telecommunications to collaborate, publish, and interact with peers, experts, and other audiences.	Use telecommunications efficiently and effectively to access remote information and communicate with others in support of facilitated and independent learning.
	b. Use technology tools for individual and collaborative writing, communication and publishing activities to create curricular related products for audiences inside and outside the classroom.
	c. Collaboratively use telecommunications and online resources.

STANDARD 5: Technology Research Tools

Standard The student will:	Content Knowledge and Skills:
Use technology to locate, evaluate, and collect information from a variety of sources.	a. Locate information from electronic resources.
	 Evaluate the accuracy, relevance, appropriateness, comprehensiveness and bias of electronic information sources
Use technology tools to process data and report results.	a. N/A

STANDARD 6:

Standard The student will:	Content Knowledge and Skills:
Use technology resources for solving problems and making informed decisions.	a. N/A

STANDARD 1: Basic Operations and Concepts

Standard The student will:	Content Knowledge and Skills:
Demonstrate a sound understanding of the basic nature and operation of	a. Use developmentally appropriate and accurate technology terminology. b. Explore the appropriate technology device to complete a task.
technology systems.	c. N/A
2. Demonstrate proficiency in the use of technology.	a. Demonstrate functional operation of technology components.
	b. Acquire and apply strategies for identifying and solving routine software and hardware problems that occur in everyday use.

STANDARD 2: Social, Ethical, and Human Issues

Standard The student will:	Content Knowledge and Skills:
Demonstrate an understanding of the ethical, cultural, and societal issues related to technology.	Discuss common uses of technology in daily life and related advantages and disadvantages.
	 Discuss basic issues related to responsible use of technology and information and describe personal consequences of inappropriate use.
2. Practice responsible	Practice responsible use of technological devices and software.
use of technology systems, information,	 b. Demonstrate respect for others while using technology.
and software.	c. Discuss legal and ethical behaviors when using technology and information.

STANDARD 3: Technology Productivity Tools

Standard The student will:	Content Knowledge and Skills:
1. Use technology tools to enhance learning, increase productivity, and promote creativity.	Use prescribed technology writing or drawing tools for communicating and illustrating.
	 b. Use prescribed technology tools for data collection and analysis.
	 c. Explore prescribed technology for publishing and presenting information.
	d. N/A

STANDARD 4: Technology Communications Tools

Standard The student will:	Content Knowledge and Skills:
Use telecommunications to collaborate, publish, and interact with peers, experts, and other audiences.	 Use telecommunications efficiently and effectively to access remote information and communicate with others in support of facilitated and independent learning.
	 b. Use technology tools for individual and collaborative writing, communication and publishing activities to create curricular related products for audiences inside and outside the classroom.
	c. N/A

STANDARD 5: Technology Research Tools

Standard The student will:	Content Knowledge and Skills:
Use technology to locate, evaluate, and collect information from a variety of sources.	a. Explore electronic information sources.
	 Evaluate the accuracy and relevance of electronic information sources.
Use technology tools to process data and report results.	a. N/A

STANDARD 6:

Standard The student will:	Content Knowledge and Skills:
Use technology resources for solving problems and making informed decisions.	a. N/A

STANDARD 1: Basic Operations and Concepts

Standard The student will:	Content Knowledge and Skills:
Demonstrate a sound understanding of the	Use developmentally appropriate and accurate technology terminology.
basic nature and operation of	b. N/A
technology systems.	c. N/A
2. Demonstrate proficiency in the use of technology.	a. Demonstrate functional operation of technology components.
	b. Explore and acquire and apply strategies for identifying and solving routine software and hardware problems that occur in everyday use.

STANDARD 2: Social, Ethical, and Human Issues

Standard The student will:	Content Knowledge and Skills:
Demonstrate an understanding of the ethical, cultural, and societal issues related to technology.	a. N/A
	b. Demonstrate an awareness and respect for the ethical use of technology.
2. Practice responsible use of technology systems, information,	a. Practice responsible use of technological devices and software.
	 b. Demonstrate respect for others while using technology.
and software.	c. N/A

Standard The student will:	Content Knowledge and Skills:
1. Use technology tools to enhance learning, increase productivity, and promote creativity.	 Use prescribed technology writing or drawing tools for communicating and illustrating.
	 Use prescribed technology tools for data collection and analysis.
	 c. Explore prescribed technology for publishing and presenting information.
	d. N/A

STANDARD 4: Technology Communications Tools

Standard The student will:	Content Knowledge and Skills:
Use telecommunications to collaborate, publish, and interact with peers, experts, and other audiences.	a. Gather information and communicate with others using telecommunications, with support from teachers, family members or student partners.
	 b. Use technology tools for individual and collaborative writing, communication and publishing activities to create curricular related products for audiences inside and outside the classroom.
	c. N/A

STANDARD 5: **Technology Research Tools**

Standard The student will:	Content Knowledge and Skills:
1. Use technology to locate, evaluate, and collect information from a variety of sources.	a. Explore electronic information sources.
	b. N/A
Use technology tools to process data and report results.	a. N/A

STANDARD 6:

Standard The student will:	Content Knowledge and Skills:
Use technology resources for solving problems and making informed decisions.	a. N/A

STANDARD 1: Basic Operations and Concepts

Standard The student will:	Content Knowledge and Skills:
Demonstrate a sound understanding of the	Use developmentally appropriate and accurate technology terminology.
basic nature and operation of	b. N/A
technology systems.	c. N/A
2. Demonstrate proficiency in the use of technology.	Demonstrate functional operation of technology components.
	 Explore and acquire and apply strategies for identifying and solving routine software and hardware problems that occur in everyday use.

STANDARD 2: Social, Ethical, and Human Issues

Standard The student will:	Content Knowledge and Skills:
Demonstrate an understanding of the ethical, cultural, and societal issues related to technology.	a. N/A
	b. Demonstrate an awareness and respect for the ethical use of technology.
2. Practice responsible use of technology systems, information,	a. Practice responsible use of technological devices and software.
	b. Demonstrate respect for others while using technology.
and software.	c. N/A

Standard The student will:	Content Knowledge and Skills:
1. Use technology tools to enhance learning, increase productivity, and promote creativity.	 Use prescribed technology writing or drawing tools for communicating and illustrating.
	 Use prescribed technology tools for data collection and analysis.
	 c. Explore prescribed technology for publishing and presenting information.
	d. N/A

STANDARD 4: Technology Communications Tools

Standard The student will:	Content Knowledge and Skills:
Use telecommunications to collaborate, publish, and interact with peers, experts, and other audiences.	a. Gather information and communicate with others using telecommunications, with support from teachers, family members or student partners.
	b. Use technology tools for individual and collaborative writing, communication and publishing activities to create curricular related products for audiences inside and outside the classroom.
	c. N/A

STANDARD 5: Technology Research Tools

Standard The student will:	Content Knowledge and Skills:
1. Use technology to locate, evaluate, and collect information from a variety of sources.	a. Explore electronic information sources.
	b. N/A
Use technology tools to process data and report results.	c. N/A

STANDARD 6:

Standard The student will:	Content Knowledge and Skills:
Use technology resources for solving problems and making informed decisions.	a. N/A

Kindergarten Idaho Student Information Technology Benchmarks

STANDARD 1: Basic Operations and Concepts

Standard The student will:	Content Knowledge and Skills:
Demonstrate a sound understanding of the basic nature and operation of	 a. Use developmentally appropriate and accurate technology terminology.
	b. N/A
technology systems.	c. N/A
2. Demonstrate proficiency in the use of technology.	Use input and output devices successfully to operate computers, VCRs, audio tapes and other technologies.
	 Explore and acquire and apply strategies for identifying and solving routine software and hardware problems that occur in everyday use.

STANDARD 2: Social, Ethical, and Human Issues

Standard The student will:	Content Knowledge and Skills:
Demonstrate an understanding of the ethical, cultural, and societal issues related to technology.	a. N/A
	b. Demonstrate an awareness and respect for the ethical use of technology.
2. Practice responsible use of technology systems, information, and software.	Practice responsible use of technological devices and software.
	 b. Demonstrate respect for others while using technology.
	c. N/A

Kindergarten Idaho Student Information Technology Benchmarks

STANDARD 3: Technology Productivity Tools

Standard The student will:	Content Knowledge and Skills:
1. Use technology tools to enhance learning, increase productivity, and promote creativity.	a. N/A
	b. N/A
	c. N/A
	d. N/A

STANDARD 4: Technology Communications Tools

Standard The student will:	Content Knowledge and Skills:
1. Use telecommunications to collaborate, publish, and interact with peers, experts, and other audiences.	a. N/A
	b. N/A
	c. N/A

Kindergarten Idaho Student Information Technology Benchmarks

STANDARD 5: Technology Research Tools

Standard The student will:	Content Knowledge and Skills:
Use technology to locate, evaluate, and collect information from a variety of sources.	a. N/A
	b. N/A
Use technology tools to process data and report results.	c. N/A

STANDARD 6:

Standard The student will:	Content Knowledge and Skills:
Use technology resources for solving problems and making informed decisions.	a. N/A